## **CLAIMS**

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- 1. Injection device for moulding of plastic objects, comprising
- a hollow die provided with a recess and one or more injection holes for plastic in an area of said recess,
- an elongated body, positioned inside the recess, provided at one end with one
  or more tips, each tip being combined with at least one outflow orifice for plastic
  and with a respective injection hole for plastic, the body forming, with an internal
  wall in the recess itself, a ring-shaped air space, characterised in that
  - the air space is provided with a narrow section which separates a portion of the air space distal from the injection hole, from an portion of the air space proximal to the injection hole, the area of the narrow section being substantially smaller than the respective areas of the sections of said proximal and distal areas.
    - 2. Device according to claim 1, comprising a tube of defined length fixed by a first end around said one or more tips, a second end of the tube being open and surrounding the at least one outflow orifice at a distance such as to leave a space for outflow of the plastic, thus containing and guiding the flow of plastic coming out of the at least one outflow orifice towards the at least one injection hole and in which the second end forms with the inner wall of the cavity said narrow section.
    - 3. Device according to claim 1 or 2, in which the open end of the tube has one of the following shapes: substantially cylindrical, bent towards the central longitudinal axis of the at least one tip, bent towards the outside of the tip.
    - 4. Device according to one or more claims from 1 to 3, in which the tube is adapted to heat the plastic in the distal area of the air space less than in the proximal area of the air space.
- 5. Device according to claim 4, characterised in that the tube has a substantially lower thermal conductivity than the body.